



**運輸署**

*Transport Department*

## **Parking Vacancy**

## **Data Specification**

**Version 1.3**

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## Data Dictionary

### 1.1 Basic Information of Car Park

	Field name	Field type	Length	Mandatory?	Remarks
1.1	car_park[*].park_id	varchar	20	Y	<b>Unique ID of car park</b>
1.2	1.2.1 car_park[*].name_en	varchar	50	Y	Car park name in English
	1.2.2 car_park[*].name_tc	varchar	50	Y	Car park name in Traditional Chinese (T. Chinese) (UTF-8)
	1.2.3 car_park[*].name_sc	varchar	50	Y	Car park name in Simplified Chinese (S. Chinese) (UTF-8)
1.3	1.3.1 car_park[*].displayaddress_en	varchar	200	Y	Address in English
	1.3.2 car_park[*].displayaddress_tc	varchar	200	Y	Address in T. Chinese (UTF-8)
	1.3.3 car_park[*].displayaddress_sc	varchar	200	Y	Address in S. Chinese (UTF-8)
1.4	car_park[*].latitude	double	(13,10)	Y	<b><i>WGS84, Latitude of car park's Main Entrance</i></b>
1.5	car_park[*].longitude	double	(13,10)	Y	<b><i>WGS84, Longitude of car park's Main Entrance</i></b>
1.6	1.6.1 car_park[*].district_en	varchar	40	N	District name in English
	1.6.2 car_park[*].district_tc	varchar	40	N	District name in Traditional Chinese (T. Chinese) (UTF-8)
	1.6.3 car_park[*].district_sc	varchar	40	N	District name in Simplified Chinese (S. Chinese) (UTF-8)
1.7	car_park[*].contactNo	char	10	N	Contact phone number of carpark <b><i>format: 00000000</i></b>
1.8	car_park.opening_status	varchar	5	N	Current Opening Status <b><i>OPEN or CLOSED</i></b>
1.9	car_park[*].height	double	(3,1)	N	Height limit in meter
1.10	1.10.1 car_park[*].remark_en	varchar	1000	N	Specific usage rules or remark in English for height limit
	1.10.2 car_park[*].remark_tc	varchar	1000	N	Specific usage rules or remark in T. Chinese for height limit (UTF-8)
	1.10.3 car_park[*].remark_sc	varchar	1000	N	Specific usage rules or remark in S. Chinese for height limit (UTF-8)

1.11	1.11.1 car_park[*].website_en	varchar	100	N	URL of English website
	1.11.2 car_park[*].website_tc	varchar	100	N	URL of T. Chinese website
	1.11.3 car_park[*].website_sc	varchar	100	N	URL of S. Chinese website
1.12	car_park[*].carpark_photo	varchar	100	N	URL of photo of car park's Main entrance (In JPEG format)

## 1.1.1 Get basic information of all participating car parks

**Resource URL:**

[http://resource.data.one.gov.hk/td/carpark/basic\\_info\\_all.json](http://resource.data.one.gov.hk/td/carpark/basic_info_all.json)

## 1.1.2 Get basic information of an individual car park

**Resource URL:**

[http://resource.data.one.gov.hk/td/carpark/basic\\_info\\_xxxxx.json](http://resource.data.one.gov.hk/td/carpark/basic_info_xxxxx.json)

where xxxxx is an unique ID of car park.

## 1.2 Sample JSON of Basic Information of Car Park

### 1.2.1 Example request to get basic information of all participating car parks:

[http://resource.data.one.gov.hk/td/carpark/basic\\_info\\_all.json](http://resource.data.one.gov.hk/td/carpark/basic_info_all.json)

#### Example response:

```
{
  "car_park":[
    {
      "park_id":"tdcp1",
      "name_en":"Yau Ma Tei Car Park",
      "name_tc":"油麻地停車場",
      "name_sc":"油麻地停车场",
      "displayaddress_en":"250 Shanghai Street, Yau Ma Tei, Kowloon",
      "displayaddress_tc":"九龍油麻地上海街 250 號",
      "displayaddress_sc":"九龍油麻地上海街 250 号",
      "latitude":"22.30919474",
      "longitude":"114.17043492",
      "district_en":"Yau Tsim Mong",
      "district_tc":"油尖旺",
      "district_sc":"油尖旺",
      "contactNo":"27712915",
      "opening_status":"OPEN",
      "height":"2",
      "remark_en":"","",
      "remark_tc":"","",
      "remark_sc":"","",
      "website_en":"http://www.mackcarpark.com.hk/eng/carpark_info.php?id=23",
      "website_tc":"http://www.mackcarpark.com.hk/big5/carpark_info.php?id=23",
      "website_sc":"","",
      "carpark_photo":" http://resource.data.one.gov.hk/td/carpark/tdcp1.jpg "
    },
    {
      "park_id":"tdcp2",
      "name_en":"Rumsey Street Car Park",
      "name_tc":"林士街停車場",
      "name_sc":"林士街停车场",
      "displayaddress_en":"2 Rumsey Street, Sheung Wan, Hong Kong",
      "displayaddress_tc":"香港上環林士街 2 號",
      "displayaddress_sc":"香港上环林士街 2 号",
      "latitude":"22.28740848",
      "longitude":"114.15322694",
      "district_en":"Central & Western",
      "district_tc":"中西區",
      "district_sc":"中西区",
      "contactNo":"25456543",
      "opening_status":"open",
      "height":"2",
      "remark_en":"","",

```

```

    "remark_tc": "",
    "remark_sc": "",
    "website_en": "http://www.wilsonparking.com.hk/car-park-detail.php?cp=499",
    "website_tc": "http://www.wilsonparking.com.hk/tc/car-park-detail.php?cp=499",
    "website_sc": "",
    "carpark_photo": "http://resource.data.one.gov.hk/td/carpark/tdcp2.jpg "
  }
  ...
]
}

```

### 1.2.2 Example request to get basic information of an individual car park:

[http://resource.data.one.gov.hk/td/carpark/basic\\_info\\_tdc1.json](http://resource.data.one.gov.hk/td/carpark/basic_info_tdc1.json)

#### Example response:

```

{
  "car_park": [
    {
      "park_id": "tdcp1",
      "name_en": "Yau Ma Tei Car Park",
      "name_tc": "油麻地停車場",
      "name_sc": "油麻地停车场",
      "displayaddress_en": "250 Shanghai Street, Yau Ma Tei, Kowloon",
      "displayaddress_tc": "九龍油麻地上海街 250 號",
      "displayaddress_sc": "九龍油麻地上海街 250 号",
      "latitude": "22.30919474",
      "longitude": "114.17043492",
      "district_en": "Yau Tsim Mong",
      "district_tc": "油尖旺",
      "district_sc": "油尖旺",
      "contactNo": "27712915",
      "opening_status": "OPEN",
      "height": "2",
      "remark_en": "",
      "remark_tc": "",
      "remark_sc": "",
      "website_en": "http://www.mackcarpark.com.hk/eng/carpark_info.php?id=23",
      "website_tc": "http://www.mackcarpark.com.hk/big5/carpark_info.php?id=23",
      "website_sc": "",
      "carpark_photo": "http://resource.data.one.gov.hk/td/carpark/tdcp1.jpg "
    }
  ]
}

```

### 1.3 On-line/Real-time Parking Vacancy Data

Field name	Field description	Field type	Length	Mandatory?	Remarks
car_park[*].park_id	Consists of Carpark Operator Internal ID & Carpark Branch ID	varchar	20	Y	Unique ID for car park a
car_park[*].lastupdate	Last Update Timestamp from the Carpark Operator	datetime		Y	<i>YYYYMMDDTHH:MM:SS+0800, e.g.20151229T10:30:00+0800</i>
car_park[*].vehicle_type[*].type	Vehicle Type	char	1	Y	<i>P-Cars/Vans, M-Motor Cycles, L-Light Goods Vehicles, H-Heavy Goods Vehicle, C-Coaches/Buses, T-Container Vehicles</i>
car_park[*].park_id[*].vehicle_type[*].service_category[*].category	Service Category	varchar	30	Y	<i>HOURLY, DAILY, MONTHLY</i>
car_park[*].park_id[*].vehicle_type[*].service_category[*].vacancy_type	Vacancy Type	Char	1	Y	<i>A- Parking space availability with actual number. B- Parking space availability without actual number. C- Car park closed</i>
car_park[*].park_id[*].vehicle_type[*].service_category[*].vacancy	Current Vacancy	int	4	Y	<i>When Vacancy Type is A, 0 means car park is full (滿).  When Vacancy Type is B, 0 means car park is full (滿). 1 means parking space available (有車位).  When Vacancy Type is C, it always returns 0 (關閉).</i>

### **1.3.1 Get parking vacancy data of all participating car parks**

**Resource URL:**

[http://resource.data.one.gov.hk/td/carpark/vacancy\\_all.json](http://resource.data.one.gov.hk/td/carpark/vacancy_all.json)

### **1.3.2 Get parking vacancy data of an individual car park**

**Resource URL:**

[http://resource.data.one.gov.hk/td/carpark/vacancy\\_xxxxx.json](http://resource.data.one.gov.hk/td/carpark/vacancy_xxxxx.json)

where xxxxx is an unique ID of car park.



## 1.4 Sample JSON of On-line/Real-time Parking Vacancy Data

### 1.4.1 Example request to get parking vacancy data of all participating car parks:

[http://resource.data.one.gov.hk/td/carpark/vacancy\\_all.json](http://resource.data.one.gov.hk/td/carpark/vacancy_all.json)

#### Example response:

```
{
  "car_park":[
    {
      "park_id":"tdcp1",
      "lastupdate":"2017-04-20T10:11:12+0800",
      "vehicle_type":[
        {
          "type":"P",
          "service_category":[
            {
              "category":"HOURLY",
              "vacancy_type":"B",
              "vacancy":"1"
            }
          ]
        }
      ]
    }
  ],
  {
    "park_id":"tdcp2",
    "lastupdate":"2017-04-20T10:11:12+0800",
    "vehicle_type":[
      {
        "type":"P",
        "service_category":[
          {
            "category":"HOURLY",
            "vacancy_type":"B",
            "vacancy":"0"
          }
        ]
      }
    ]
  }
],
  {
    "park_id":"tdcp3",
    "lastupdate":"2017-04-20T10:11:12+0800",
    "vehicle_type":[
      {
        "type":"P",
        "service_category":[
          {
            "category":"HOURLY",
            "vacancy_type":"C",

```

```

        "vacancy": "0"
      }
    ]
  }
],
{
  "park_id": "tdcp5",
  "lastupdate": "2017-04-20T10:11:12+0800",
  "vehicle_type": [
    {
      "type": "P",
      "service_category": [
        {
          "category": "HOURLY",
          "vacancy_type": "A",
          "vacancy": "55"
        }
      ]
    },
    {
      "type": "P",
      "service_category": [
        {
          "category": "HOURLY",
          "vacancy_type": "A",
          "vacancy": "66"
        }
      ]
    }
  ]
}
...
]
}

```

#### 1.4.2 Example request to get parking vacancy data of an individual car park:

[http://resource.data.one.gov.hk/td/carpark/vacancy\\_tdc1.json](http://resource.data.one.gov.hk/td/carpark/vacancy_tdc1.json)

##### Example response:

```

{
  "car_park": [
    {
      "park_id": "tdcp1",
      "lastupdate": "2017-04-20T10:11:12+0800",
      "vehicle_type": [
        {
          "type": "P",
          "service_category": [
            {
              "category": "HOURLY",
              "vacancy_type": "B",

```

```
        "vacancy": "1"  
      }  
    ]  
  }  
]   
}
```